SEQUENCE LISTING

<110> Bayley, Hagan
      Braha, Orit
      Kasianowicz, John
      Gouaux, Eric

<120> DESIGNED PROTEIN PORES AS COMPONENTS FOR BIOSENSORS

<130> 07917/062001

<140> US 09/122,583
<141> 1998-07-24

<150> US 60/053,737
<151> 1997-07-25

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<170> FastSEQ for Windows Version 3.0

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Gly Met His Lys Lys Val Phe Tyr Ser Phe Ile Asp Asp Lys Asn His
        35                  40                  45
Asn Lys Lys Leu Leu Val Ile Arg Thr Lys Gly Thr Ile Ala Gly Gln
    50                  55                  60
Tyr Arg Val Tyr Ser Glu Glu Gly Ala Asn Lys Ser Gly Leu Ala Trp
65                  70                  75                  80
Pro Ser Ala Phe Lys Val Gln Leu Gln Leu Pro Asp Asn Glu Val Ala
                85                  90                  95
Gln Ile Ser Asp Tyr Tyr Pro Arg Asn Ser Ile Asp Thr Lys Glu Tyr
            100                 105                 110
Met Ser Thr Leu Thr Tyr Gly Phe Asn Gly Asn Val Thr Gly Asp Asp
        115                 120                 125
Thr Gly Lys Ile Gly Gly Leu Ile Gly Ala Asn Val Ser Ile Gly His
    130                 135                 140
Thr Leu Lys Tyr Val Gln Pro Asp Phe Lys Thr Ile Leu Glu Ser Pro
145                 150                 155                 160
Thr Asp Lys Lys Val Gly Trp Lys Val Ile Phe Asn Asn Met Val Asn
                165                 170                 175
Gln Asn Trp Gly Pro Tyr Asp Arg Asp Ser Trp Asn Pro Val Tyr Gly
            180                 185                 190
Asn Gln Leu Phe Met Lys Thr Arg Asn Gly Ser Met Lys Ala Ala Asp
        195                 200                 205
Asn Phe Leu Asp Pro Asn Lys Ala Ser Ser Leu Leu Ser Ser Gly Phe
    210                 215                 220
Ser Pro Asp Phe Ala Thr Val Ile Thr Met Asp Arg Lys Ala Ser Lys
225                 230                 235                 240
Gln Gln Thr Asn Ile Asp Val Ile Tyr Glu Arg Val Arg Asp Asp Tyr
                245                 250                 255
Gln Leu His Trp Thr Ser Thr Asn Trp Lys Gly Thr Asn Thr Lys Asp
            260                 265                 270
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09784965 .021501

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Glu Glu Met Thr Asn
    290

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Asp Asp Thr Gly Lys Ile Gly Gly Leu Ile Gly Ala Asn Val Ser Ile
            20                  25                  30
Gly His Thr Leu Lys Tyr Val Gln
        35                  40
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